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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): An isolated lactic acid bacterial strain belonging to the

genus Lactococcus and isolated from human stool, wherein the bacterial strain is Lactococcus

garvieae 20-92 deposited under FERM BP-10036 and the bacterial strain has an ability to utilize

at least one daidzein compound selected from the group consisting of daidzein glycosides,

daidzein, and dihydrodaidzein to produce equol.

2. (canceled).

3. (canceled).

4. (previously presented): A composition comprising the isolated lactic acid

bacterial strain belonging to the genus *Lactococcus* according to Claim 1 and at least one

member selected from the group consisting of daidzein compounds and daidzein compound-

containing ingredients.

5. (original): The composition according to Claim 4, wherein the daidzein

compound-containing ingredient is soybean flour or soy milk.

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6. (original): The composition according to Claim 4 which is in the form of a

beverage or a milk product.

7. (original): The composition according to Claim 4 further comprising equal.

8. (original): The composition according to Claim 7 which is in the form of a

fermentation product of soy milk.

9. (withdrawn-currently amended): A method of producing equal comprising the

step of letting an isolated lactic acid bacterial strain belonging to the genus Lactococcus and

isolated from human stool, wherein the bacterial strain is Lactococcus garvieae 20-92 deposited

under FERM BP-10036 and the bacterial strain has an ability to utilize a daidzein compound to

produce equal, act on at least one member selected from the group consisting of daidzein

compounds and daidzein compound-containing ingredients.

- 10. (canceled).
- 11. (canceled).

12. (withdrawn): The method according to Claim 9, wherein the daidzein

compound-containing ingredient is soybean flour or soy milk.

13. (canceled).

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14. (previously presented): A composition comprising the isolated lactic acid bacterial strain belonging to *Lactococcus garvieae* according to Claim 1 and an edible or pharmaceutically acceptable carrier.

15. (currently amended): The isolated lactic acid bacterial strain belonging to the genus *Lactococcus* according to Claim 1, which has the following characteristics (1) to (15):

(1) Optimum temperature for growth: 37°C

(2) Optimum pH for growth: 7.0

(3) Liquefaction of gelatin: -

(4) Production of acetoin from pyruvic acid: +

(5) Hydrolysis of hippuric acid: -

(6) Hydrolysis of esculin: +

(7) Pyrrolidonyl arylamidase: +

(8) α-Galactosidase: -

(9) β-Galactosidase: -

(10) β-Glucronidase:

(11) Alkaline phosphatase: -

(12) Leucine arylamidase: +

(13) Arginine dihydrase: +

(14) Assimilation of carbon sources

D-Ribose +

L-Arabinose -

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D-Mannitol +

D-Sorbitol -

Lactose -

D-Trehalose +

Inulin -

D-Raffinose -

Starch +

Glycogen -

(15) Organic acid composition after utilization of peptone or glucose is as shown in the following table:

Organic acid	<u>Peptone</u>	<u>Glucose</u>
Maleic acid	<u>nd</u>	<u>nd</u>
Succinic acid	0.00	0.01
Lactic acid	3.33	<u>27.35</u>
Formic acid	1.13	0.88
Acetic acid	3.32	0.57
Pyroglutamic acid	0.12	0.25
Propionic acid	<u>nd</u>	<u>nd</u>
i-Butyric acid	nd	<u>nd</u>
n-Butyric acid	nd	<u>nd</u>
i-Valeric acid	nd	<u>nd</u>
n-Valeric acid	<u>nd</u>	<u>nd</u>

nd = not detected.